

General:

1. No difference in core functionality (BPO v LP).
2. Structure Ownership and View Modes: because it is primarily the UI is being tailored for LP use, it will be necessary to include structure ownership (management) as a significant WSBIS application property. The following points address modifications necessary to enable this property to be used within the context of other WSBIS LP-related modifications:
 - a. Structure ownership will be determined by main crossing program manager (BPO/LP).
Note: May need to verify WSBIS v BW ownership logic. Check specifically for LP structures with WSDOT under.
 - b. WSBIS will include two view modes: BPO v LP.
 - c. Structure ownership determines primary view mode, as follows:
 - i. BPO main crossing manager – BPO view mode
 - ii. LP main crossing manager – LP view mode.
 - d. View mode is automatically determined, cannot be changed by the user and is not exposed as a user setting.
 - e. BPO and LP program managers are determined by settings in WSBIS.config, as follows:
 - i. Add element <ProgramManagers> following connectors.
 - ii. Add elements <ProgramManager> to <ProgramManagers> as follows:
<ProgramManager Management={BPO,LP} GUID="program_manager_gid">
 - iii. Multiple BPO and/or LP program managers is possible.
 - f. At the application level, modify App.xaml.cs as follows:
 - i. Add BPOManagers and LPManagers as lists of type GUID.
 - ii. Add code to Application_Startup event to read wsbis.config and set App properties for BPOManagers and LPManagers lists.
 - g. Modify IMOdata.cs interface as follows:
 - i. Add ProgramManagement enum definition {BPO, LP}
 - ii. Add Manager as read-only property of type ProgramManagement.
 - h. Modify SIdata.cs as follows:
 - i. Add Management property.
 - ii. Set Management property in SetCDAsync method by checking primary crossing program manager vs App level BPO, LP manager lists.
 - i. Modify IMOForm.cs interface as follows:
 - i. Add DisplayForManagement method which takes a ProgramManagement type as input and returns a bool result.
 - ii. Implement DisplayForManagement method in all existing BPO forms as true.
Specific exceptions may be noted elsewhere in these specifications.
 - j. Modify MainWindow.xaml.cs LoadSelectedCDAsync method as follows:
 - i. Change logic to initialize forms so that only appropriate management forms are displayed for structure (LP vs BPO main crossing manager).
 - ii. Consider addition of VisibleForms property to IMOData and SIdata to support.

User Account Provisioning/Default Account Permissions:

1. All LP users will have Create UCD/Submit to Lock permission for the SI managed operation on LP structures.
2. Specific LP users will have Create UCD/Submit to Lock permission for the INV managed operation on LP structures. These users will be assigned by LPBIE, as needed.

SI/INV Managed Operations Used by BPO on contract to LP:

1. Workflow follows BPO inspection for LA Bridge.
2. BPO TL submits to Lock when forwarded to LPBIE.
3. LPBIE submits to Released for all UCDs on LP structures.

Possible Shared (BPO & LP) Changes:

1. Load Rating metrics (tblLoadRatings) data entry form.
2. Selection Set Editor command options. This is the inclusion of a single command button on the Edit Selection Set form: **Remove List**. The command would be used to remove all entries in the left match selection panel from the set of structures in the selection set list in the right panel.
3. Export to Access feature for most current MCD or most recent update for structure/selection list. Implementation will be additional "Database" command bar option with icon to be determined under the Operation tab. Command bar will display window for selection of export options and start of export. Export completion should launch Access with dataset resulting from export as input to blank database.

Report Changes:

1. SIA report is OK – no changes required.
2. Inspection photos report is OK – no changes required.
3. Inventory and Inspection Reports – need specific content changes based on fields reported. These will be detailed and separate LP versions of these reports will be made available for the LP view.

Cosmetic Changes:

1. Splash screen – replace image shuffle with solid WSDOT green to avoid overhead on unknown PC platforms.
2. Make suggestions for icons for Batch Jobs and possibly other commands where icon would be more suggestive of actual use.
3. Change structure highlighting for overdue structures (RowColorConverter):
 - a. Overdue > 30 days : Yellow highlight
 - b. Overdue > 45 days : Red highlight
4. Obtain separate WSBIM PDF document with anchors for use with LP UI. Larry V to provide document.

Forms Changes (SI and INV):

1. Report Types:
 - a. New report type FEAT – carry forward to new UCDs.
 - b. All inspection report types:
 - i. Remove Insp Override Date
 - ii. Change wording on:
 1. PM Response Date → Late Inspection Approve Date
 2. Approved? → PM Approve
 - iii. Add field: Inspn. Report Hours (7696)
2. Inspection (NBI):
 - a. Consider use of separate form for LP use due to relocation of fields and large number of additional LP fields.
 - b. Additional fields required (tblInspectionReports):
 - i. Approach Roadway (7681)
 - ii. Retaining Wall (7682)
 - iii. Pier Protection (7683)
 - iv. Drain Cond (7664)
 - v. Drain Status (7665)
 - vi. Deck Scaling (7666)
 - vii. Scaling Pct. (7667)
 - viii. Deck Rutting (7669)
 - ix. Exposed Rebar (7670)
 - x. Curb (7672)
 - xi. Sdwk (7673)
 - xii. Paint (7674)
3. BMS: No changes noted.
4. Notes: No changes noted.
5. Repairs: No changes noted.
6. Photos: No changes noted.
7. Files: No changes noted.
8. Records:
 - a. Add new tab (Load Ratings) – this is for files related to load ratings for LP structures. LP has existing documents that will be migrated to table tblLoadRatingFiles. Tab should be added immediately before Misc tab,
9. Bridge ID:
 - a. Add field Custodian Code (1020) (Currently shown on Facilities form.)
 - b. Review setting of structure PM – currently in WSBIS, this is done **only** through the main crossing PM.
10. Facilities:
 - a. Add fields:

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- i. Legislative District 1 (7281)
- ii. Legislative District 2 (7283)
- iii. Median Code (1291)
- iv. Open Closed Posted (1293)
- v. Historical Significance – HAER (2295)
- vi. Historical Significance – Local Registry (7296)

11. Add tblWaterway tab (NEW):

- i. Water Type (7832)
- ii. Flood Plain Intrusion (7833)
- iii. Flood Control (7834)
- iv. Scour History (7835)
- v. Streambed Material (7836)
- vi. Substructure Stability (7837)
- vii. Waterway Obstruction (7838)
- viii. Streambed Stability (7839)
- ix. Streambed Anabranch (7840)
- x. Piers in Water (7841)

12. Layout: No changes noted.

13. Crossing:

- a. Add fields:
 - i. NBI Bridge (2410)
 - ii. Speed Limit (2441)
 - iii. Federal Aid Route No. (7479)

14. Design:

- a. Alpha Span Type (2537) - will be text field.
- b. Add fields:
 - i. Design Exemption (7557)
 - ii. Federal Aid Project No. (7558)

15. Proposed Improvements: No changes noted.